

and techniques that are insubstantially different from those described above and/or in the appended claims are also intended to be within the scope of the disclosure.

[0348] The embodiments shown in the drawings are presented only to demonstrate certain examples of the disclosure. The drawings described are only illustrative and are non-limiting. In the drawings, for illustrative purposes, the size of some of the elements may be exaggerated and not drawn to a particular scale. Additionally, elements shown within the drawings that have the same numbers may be identical elements or may be similar elements, depending on the context.

[0349] Where the term “comprising” is used in the present description and claims, it does not exclude other elements or steps. Where an indefinite or definite article is used when referring to a singular noun, e.g. “a” “an” or “the”, this includes a plural of that noun unless something otherwise is specifically stated. Hence, the term “comprising” should not be interpreted as being restricted to the items listed thereafter; it does not exclude other elements or steps, and so the scope of the expression “a device comprising items A and B” should not be limited to devices consisting only of components A and B. This expression signifies that, with respect to the present disclosure, the only relevant components of the device are A and B.

[0350] Furthermore, the terms “first”, “second”, “third” and the like, whether used in the description or in the claims, are provided for distinguishing between similar elements and not necessarily for describing a sequential or chronological order. It is to be understood that the terms so used are interchangeable under appropriate circumstances (unless clearly disclosed otherwise) and that the embodiments of the disclosure described herein are capable of operation in other sequences and/or arrangements than are described or illustrated herein.

[0351] While the principles of the disclosure have been described herein, it is to be understood by those skilled in the art that this description is made only by way of example and not as a limitation as to the scope of the disclosure. Other embodiments are contemplated within the scope of the present disclosure in addition to the exemplary embodiments shown and described herein. Modifications and substitutions by one of ordinary skill in the art are considered to be within the scope of the present disclosure.

1-19. (canceled)

20. A system for the distribution of resources comprising:
a housing comprising:

a water source;

at least one water distillation device receiving source water from the water source and producing water for distribution, the system comprising:

a first conductivity sensor measuring a first conductance of the water for distribution;

a divert fluid line fluidly connected to the first conductivity sensor; and

a product line fluidly connected to the first conductivity sensor;

a second conductivity sensor measuring a second conductance of the water for distribution received from the product line;

a first product reservoir fluidly connected to the second conductivity sensor; and a water dispenser; and

wherein water for distribution enters the product line when the first conductance is below a first predeter-

mined value and water for distribution enters the first product reservoir when the second conductance is below a second predetermined value.

21. The system for the distribution of resources of claim 20 wherein water for distribution enters the divert line when the first conductance is at or above a first predetermined value and water for distribution enters the first product reservoir when the second conductance is below a second predetermined value.

22. The system for the distribution of resources of claim 20 wherein water for distribution does not enter the water storage device when the second conductance is below a second predetermined value.

23. The system for the distribution of resources of claim 21 wherein the first predetermined value is 20 microsiemens per centimeter.

24. The system for the distribution of resources of claim 22 wherein the second predetermined value is 20 microsiemens per centimeter.

25. The system for the distribution of resources of claim 20 wherein the housing further comprises:

at least one power generation source connected to the housing;

a power control and distribution system; and

wherein power from the at least one power generation source powers the at least one water distillation device.

26. The system for the distribution of resources of claim 20 wherein the first product reservoir comprising a water liquid level sensor.

26. The system for the distribution of resources of claim 20 wherein the first product reservoir comprising a water line connected to a check valve.

27. The system for the distribution of resources of claim 20 further comprising a source reservoir fluidly connected to the water source and the water distillation device, the source reservoir comprising at least two liquid level sensors.

28. The system for the distribution of resources of claim 25, wherein the at least one power generation source is a Stirling generator.

29. A method for the distribution of water comprising:

providing a water source, a water distillation device comprising a first conductivity sensor, a divert water line, a second conductivity sensor receiving water from the water distillation device, and a water storage device receiving water from the second conductivity sensor receiving source water from the water source; distilling the source water to produce water for distribution;

measuring a first conductance of the water for distribution with a first conductivity sensor;

allowing the water to reach the second conductivity sensor when the first conductance is below a first predetermined value;

measuring a second conductance of the water for distribution with the second conductivity sensor; and

allowing the water to flow to the water storage device when the second conductance is below a second predetermined value.

30. The method for the distribution of water of claim 29 further comprising diverting the water for distribution when the first conductance is at or above a first predetermined value.

31. The method for the distribution of water of claim 29 further comprising blocking the water from reaching the